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## DEPARTMENT OF COMMERCE RESEARCH PERFORMANCE PROGRESS REPORT (RPPR)

RPPR Guidance
Award Action Request Guidance

	Award Action Request Guidance
AWARD INFORMATION	
1. Federal Agency:	2. Federal Award Number:
Department of Commerce / NOAA	NA15OAR4320071
3. Project Title	
The Cooperative Institute For Marine Ecosyst	tems and Climate (CIMEC) 5-Year Renewal
4. Award Period of Performance Start Date:	5. Award Period of Performance End Date:
July 01, 2015	June 30, 2022
PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR	
6. Last Name and Suffix:	7. First and Middle Name:
Cornuelle	Bruce D
8. Title:	
Researcher	
9. Email:	10. Phone Number
bcornuelle@ucsd.edu	858-534-4021
AUTHORIZING OFFICIAL	
11. Last Name and Suffix:	12. First and Middle Name:
Park III	William Thomas
13. Title:	
Senior Contract and Grant Officer	
14. Email:	15. Phone Number
wparkiii@ucsd.edu	858-822-1350
REPORTING INFORMATION	<u> </u>
Signature of Submitting Official:	
William Thomas Park	
16. Submission Date and Time Stamp:	17. Reporting Period End Date:
2020-04-17 00:00:00.0	March 31, 2020
18. Reporting Frequency:	19. Report Type:
Annual	Not Final
Semi-Annual Quarterly	Final

UNIVERSITY OF CALIFORNIA SAN DIEGO	
21. Recipient Address:	
8622 DISCOVERY WAY RM 116, LA JOLLA, CA 92093-	-1500 USA
22. Recipient DUNS:	23. Recipient EIN:
175104595	956006144
ACCOMPLISHMENTS Guidance	
24. What were the major goals and objectives of this project?*	
Please see attachment	
ricase see attachment	
Spell Check	
25. What was accomplished under these goals?*	
fabricated, shipped, and deployed in regional pilot ar	eployed by R/Vs Ride, Sonne and Kaharoa. 10 Deep Argo floats were rrays by R/V Kaharoa. Continued float technology advancement activities approved calibration, and communication of floats, including improvements to e integration of the RBR CTD.
26. What opportunities for training and professional development has the project	t provided?*
CalCOFI regularly hosts student volunteers, graduate unique opportunities to gain ship-based research exp	e students and postdocs on research cruises. These opportunities provide
Spell Check	iss of the near real-time total vector surface currents for advancing research
27 Hammara the results discontinued to the control of the control	
	e, publications listed elsewhere, scientific talks, public and stakeholder e is a summary of selected dissemination achievements:
Software has been made continuously available throu	ugh the open source hosting platform GitHub, along with wiki guides
28. What do you plan to do during the next reporting period to accomplish the go	pals and objectives?*
data quality; timely, web-accessible data access; algorational and international marine science, conservati	possible, improve their planned operations. This includes observing systems; orithm and ML systems development and dissemination; collaborations with ion, and management communities; to facilitate the use of their data locally, d inform decisions in marine resource management and policy. They will
Spell Check	
PRODUCTS <u>Guidance</u>	
29. Publications, conference papers, and presentations*	
Nothing to Report □	
Please see attachment	
Spell Check	
30. Technologies or techniques*	
Nothing to Report  Please see attachment	
riedse see ditaerment	
Spell Check	
31. Inventions, patent applications, and/or licenses*	
Nothing to Report 🗹	
Nothing to report	
Spell Check	

32. Other products*
Nothing to Report
Please see attachment
Spell Check
PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS  Guidance
33. What individuals have worked on this project?*
_
Bruce Cornuelle, Director of CIMEC, UCSD/SIO  Mark Brzezinski Partner Lead, UC Santa Barbara
Pete Raimondi, Partner Lead, UC Santa Cruz
John Largier, Partner Lead, UC Davis  Spell Check
34. Has there been a change in the active other support of the PD/PI(s) or senior/key personnel since the last reporting period?*
Nothing to Report
No No
Spell Check
35. What other organizations have been involved as partners?*
Nothing to Report     Nothing to Report
Please see attachment
Spell Check
36. Have other collaborators or contacts been involved? <sup>★</sup>
Nothing to Report
Dr. Emily Bockmon, California Polytechnic, San Luis Obispo Dr. Francisco Chavez, MBARI
Dr. Philip Sutton, National Institute of Water and Atmospheric Research, New Zealand
Dr. Pierre Flament, University of Hawaii
Spell Check
IMPACT Guidance
37. What was the impact on the development of the principal discipline(s) of the project?*
Nothing to Report ☐ Please see attachment
Spell Check
38. What was the impact on other disciplines?*
Nothing to Report
Argo data is used across the earth sciences. Recent uses outside physical oceanography include studies of storm tracks, atmospheric water transport, ocean deoxygenation, biology of reef systems, primary production, anthropogenic carbon
sequestration, ice-ocean interactions, glacier melting dynamics, sea ice predictability, and weather forecasting. Advances in Core
Argo float technology contribute to other autonomous platforms (e.g. BGC floats and gliders) and has been used to inform the  Spell Check
Spell effect.
39. What was the impact on the development of human resources?*
Nothing to Report U  In addition to the educational, training, and professional development components of CIMEC projects detailed in other entries,
undergraduates, graduate students, and postdocs receive practical training in NOAA-related fields and find employment with NOAA.
NOAA.
Spell Check
40. What was the impact on teaching and educational experiences?*

	Most of the projects gave experience to undergraduates, graduates, and postdoctoral researchers, both formally and informall
	number of labs hosted REU students. Many aspects of CIMEC science are used in lectures by the PI's in classes, seminars, and public venues. Some selected specific examples are detailed in the following.
į	Spell Check
41 \	Vhat was the impact on physical, institutional, and information resources that form infrastructure?*
	Nothing to Report
	The geodesy project has had widespread impact by facilitating the online use of geodetic control and reference frames by a lar user community and increased opportunities for young scientists in Federal government agencies such as NGS.
	CalCOFI supports ship based observational science (and the ships that carry out such observations) along the west coast of the
L	Spell Check
42. V	What was the impact on technology transfer?*
ļ	Nothing to Report
Г	Please see attachment
	Spell Check
<u> </u>	
43. V	Vhat was the impact on society beyond science and technology?*
ļ	Nothing to Report
	The multi-decadal, multi-variate ocean data sets taken, maintained, and served by CIMEC are used for basic research in the ocean/climate system to understand the dynamics of the coupled ocean, atmosphere, land, and ecosystem and assess the sta
	the global and regional oceans. This basic research is applied in global and regional models for understanding and prediction of the economic and human impacts related to variability in the state of the oceans, such as carbon, sea level, hurricanes, or
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	less than 1%
CH/	less than 1%  Spell Check
CHA	Spell Check ANGES/PROBLEMS Guidance Changes in approach and reasons for change*
45. C	Spell Check  ANGES/PROBLEMS Guidance Changes in approach and reasons for change*  Nothing to Report   Dickson: there have been no changes in approach/ however, the partial support for Mr. Canyon Breyer was an addition to the
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None				
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	Spell Check			
9. Change of primary pe	erformance site location from that originally prop	posed*		
Nothing to Rep	oort 🗸			
None Nothing to Kep	101 C C			
	Spell Check			 -//
PROJECT OUTCOM	MES <u>Guidance</u>			
0. What were the outcom	mes of the award?*			
Please see att	achment			
	Spell Check			

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